

# 2008 Environmental Indicator Report



The mission of the Environmental Agenda is to enhance the long-term sustainability of Morgan Hill by developing a framework for reducing environmental impacts, increasing community health, and protecting the community's environmental resources for future generations. In order to monitor the implementation of the agenda, staff developed indicators to measure progress for each environmental goal on a yearly basis. Below are the results for 2007.

Indicator	2008 Data * unless specified	Environmental Agenda Goal(s) Addressed and Data Sources																		
<p>Annual citywide carbon emissions (also report by source).</p> <p><i>Goal: Downward Trend</i></p> <p><b>Current Status:</b> Greenhouse gas emissions increased. Although the community has reduced energy consumption, the growth is related to PG&amp;E's limited access to hydroelectric power in 2007, resulting in more energy coming from nonrenewable sources that emit greenhouse gases. The community needs to continue to modify personal behavior and make buildings more energy efficient.</p>	<div><div><p><b>Yearly Community Greenhouse Gas Emissions Per Capita</b></p><table><thead><tr><th>Year</th><th>Tons per Capita</th></tr></thead><tbody><tr><td>2005</td><td>7.0</td></tr><tr><td>2006</td><td>6.9</td></tr><tr><td>2007</td><td>7.1</td></tr></tbody></table></div><div><p><b>2007 Community Carbon Footprint by Source</b></p><table><thead><tr><th>Source</th><th>Percentage</th></tr></thead><tbody><tr><td>Transportation</td><td>64%</td></tr><tr><td>Residential</td><td>17%</td></tr><tr><td>Commercial</td><td>14%</td></tr><tr><td>Solid Waste</td><td>2%</td></tr></tbody></table></div></div>	Year	Tons per Capita	2005	7.0	2006	6.9	2007	7.1	Source	Percentage	Transportation	64%	Residential	17%	Commercial	14%	Solid Waste	2%	<p><b>Climate Protection</b></p> <p>Sources:</p> <ul style="list-style-type: none"><li>PG&amp;E</li><li>Metropolitan Transportation Commission</li><li>South Valley Disposal &amp; Recycling</li></ul> <p>Data was analyzed using software designed by the air district and ICLEI (Local Governments for Sustainability). The software uses regional carbon coefficients to estimate carbon produced.</p>
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Indicator	<b>2008 Data</b> * unless specified	<b>Environmental Agenda Goal(s)</b> <b>Addressed and Data Sources</b>
<p>Annual number of days when ozone and PM 2.5 concentrations exceed the California Ambient Air Quality Standards at the San Martin and Gilroy air quality stations.</p> <p><i>Goal: Downward Trend</i></p> <p><b>Current Status:</b>            Ozone levels increased due to the extreme hot weather conditions in 2008.</p> <p>Particulate mater (PM 2.5) did not exceed the national standards at the Gilroy Station</p>	<div data-bbox="464 212 1423 792"> <p><b>Ozone Trends Summary: Gilroy-9<sup>th</sup> Street</b>            Number of Days Ozone Exceeded Standards</p> <p>01-28-2009 04:18 PM</p> </div> <div data-bbox="464 808 1423 1349"> <p><b>Ozone Trends Summary: San Martin</b>            Number of Days Ozone Exceeded Standards</p> <p>01-28-2009 04:17 PM</p> </div>	<p style="text-align: center;"><b>Air Quality Community Health Pollution Prevention</b></p> <p>Source: The air quality stations are operated by the Bay Area Air Quality District (BAAQMD.) The San Martin station monitors only ozone and the Gilroy station monitors PM 2.5 &amp; ozone.</p> <p>Note that the Federal standard for PM 2.5 is used by BAAQMD because there are no State standards.</p>

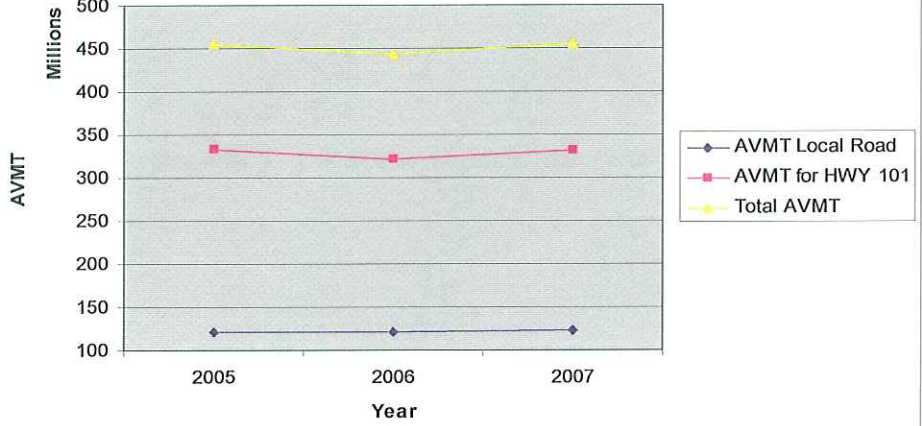
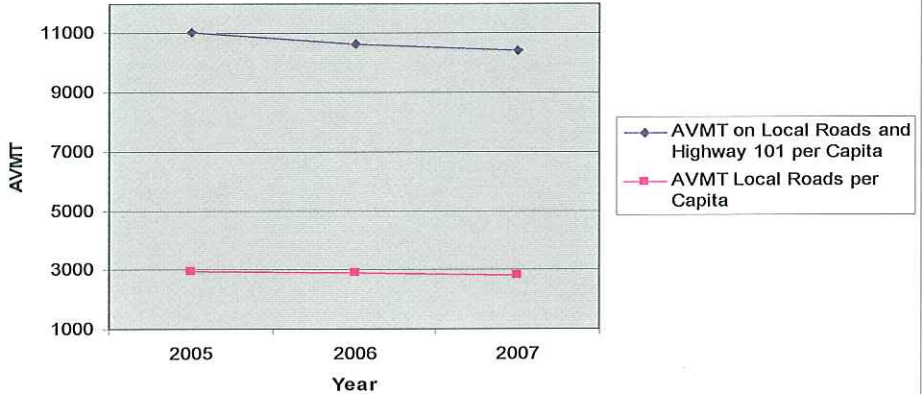


Indicator	2008 Data * unless specified	Environmental Agenda Goal(s) Addressed and Data Sources
<p>Annual total of criteria pollutants emitted from point sources.</p> <p><i>Goal: Downward Trend</i></p> <p><b>Current Status:</b> 44% decrease</p>	<p>2005- 63.1 tons</p> <p>2006-35 tons</p> <p>Note: 88% of the total emissions consist of organic gases and reactive organic gases.</p>	<p><b>Air Quality Community Health Climate Protection Pollution Prevention</b></p> <p>Source: The most current data was collected from the California Air Resources Board. The data includes the following criteria pollutants: organic gases, reactive organic gases, carbon monoxide, nitric oxide, nitrogen dioxide, sulfur dioxide, sulfur trioxide, particulate matter- PM (dust, sand, etc.), and PM10 (refers to the fraction of particulate matter with an aerodynamic diameter of 10 micrometers and smaller; these particles are small enough to penetrate the lower respiratory tract).</p>
<p>Annual total of toxic air emitted from point sources.</p> <p><i>Goal: Downward Trend</i></p> <p><b>Current Status:</b> 54% decrease</p>	<p>2005- 10,116 lbs</p> <p>2006- 6,578.8 lbs</p> <p>Note: Half of the emissions are related to dry cleaning chemicals known as Perc</p>	<p><b>Air Quality Community Health Pollution Prevention</b></p> <p>Source: The most current data was collected from the California Air Resources Board. Data includes the following toxic air pollutants: Hexane, EGBE, Isopropyl Alcohol, Benzene, Formaldehyde, Nickel, Ethylene Glycol, Methanol, Ethyl Acrylate, MEK, Methylene Chloride, TCE, Xylenes, Chloroprene, Toluene, Arsenic (0.002 lbs was emitted in 2005), Beryllium (0.001 lbs. emitted in 2005), Cadmium (0.005 lbs), Lead (0.005), Manganese (0.006), Mercury (0.002), Perc (dry cleaner's chemical.)</p>

Indicator	2008 Data * unless specified	Environmental Agenda Goal(s) Addressed and Data Sources
<p>Annual number of residents/businesses that sign-up to receive advisories to "Spare - the-Air" through email or other methods.</p> <p><i>Goal: Upward Trend</i></p> <p><b>Current Status:</b> 300% increase</p>	<p>In 2008, 278 residents and businesses signed up to receive free spare the air alerts</p> <p>In 2007, 70 residents and businesses signed up to receive free spare the air alerts</p>	<p><b>Air Quality</b></p> <p>Source: Data was obtained from the BAAQMD Spare-the-Air Division.</p>
<p>Annual gallons of gasoline/diesel sold per capita (number of jobs and driving age residents) in Morgan Hill.</p> <p><i>Goal: Downward Trend</i></p> <p><b>Current Status:</b> 3.4 % decrease in total gallons sold and 7% decrease in per capita use of gasoline.</p>	<p>In 2007, 25.5 million gallons of gasoline was sold in Morgan Hill Per capita: 609 gallons/per year/driver or 12 gallons/per week/driver Average price of gas in 2007: \$2.97</p> <p>In 2008, 24.7 million gallons of gasoline was sold in Morgan Hill Per capita: 566 gallons/per year/driver Average price of gas in 2008: \$3.46</p>	<p><b>Air Quality Climate Protection Energy Transportation</b></p> <p>Source: Average price of gasoline for California was obtained from the Energy Information Agency: U.S. Department of Energy. The Morgan Hill Finance department supplied total sales from gas stations in Morgan Hill between July 2007 and July 2008.</p> <p>Assuming that 90% of sales at gas stations are for gasoline, calculations were based on the average price of gas from July 2007 to July 2008 (\$3.46) to estimate the amount of gasoline sold within Morgan Hill.</p> <p>Per capita is based on the average number of jobs between April 2007 and April 2008 (16,395) and 69.5% of the total population in 2008 that was of driving age (27,257). Driving age (over 18 years of age) percentage was obtained from Census 2000 data.</p>

Indicator	2008 Data * unless specified	Environmental Agenda Goal(s) Addressed and Data Sources
<p>Annual number of VTA routes and stops.</p> <p><i>Goal: Upward Trend</i></p> <p><b>Current Status:</b> 5% decrease in the number of bus stops.</p> <p>A new express line (Route 168) was added.</p>	<p>Bus Stops</p> <p>2007 : 107 bus stops and 4 bus routes (Park and Ride, route 15, 16, 68 and Express 121)</p> <p>2008: 102 bus stops</p> <p>Bus Routes</p> <p>2007: 4 bus routes</p> <p>2008: 5 bus routes</p>	<p><b>Air Quality Climate Protection Transportation</b></p> <p>Source: Data was obtained from VTA.</p>
<p>Average number of riders boarding and exiting VTA buses in Morgan Hill.</p> <p><i>Goal: Upward Trend</i></p> <p><b>Current Status:</b> 110% increase in annual ridership.</p>	<p>Avg. weekday = 948 passengers</p> <p>Avg. Saturday = 279 passengers</p> <p>Avg. Sunday = 231 passengers</p> <p>Estimated annual passengers boarding and exiting VTA buses in Morgan Hill: 242,657</p>	<p><b>Air Quality Climate Protection Transportation</b></p> <p>Source: Data was obtained from VTA. Annual estimate is based on 51 weeks of bus operation.</p>
<p>Annual number of Caltrain boardings at the Morgan Hill Station.</p> <p><i>Goal: Upward Trend</i></p> <p><b>Current Status:</b> See data on right.</p>	<p>Estimated 36,210 passenger boardings</p> <p>Average weekday boarding: 142</p> <p>The train stopped at the Morgan Hill Station 1530 times in 2008</p> <p><b>Current Status:</b></p> <p>There was a 10% increase in passenger boardings compared to 2007, but there was no change in the number of times the train stops in Morgan Hill.</p>	<p><b>Air Quality Climate Protection Transportation</b></p> <p>Source: Data was obtained from Caltrain and numbers are based on an annual survey conducted every February. In 2008, there were 255 days of train service at the Morgan Hill Station.</p>



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Annual vehicle miles traveled within Morgan Hill (VMT) per year/per capita (also report without Highway 101 VMT).  <i>Goal: Downward Trend</i>  <b>Current Status:</b> Annual vehicle miles traveled (AVMT) on local roads and Highway 101 increased 3% from 2006 to 2007.  Per capita, there was a 4% decrease in AVMT on local roads from 2006 to 2007.	<div><p>Annual Vehicle Miles Traveled (AVMT)</p><table><caption>Annual Vehicle Miles Traveled (AVMT) - Millions</caption><thead><tr><th>Year</th><th>AVMT Local Road</th><th>AVMT for HWY 101</th><th>Total AVMT</th></tr></thead><tbody><tr><td>2005</td><td>123.4</td><td>334.1</td><td>457.5</td></tr><tr><td>2006</td><td>123.4</td><td>322.1</td><td>445.5</td></tr><tr><td>2007</td><td>123.4</td><td>334.1</td><td>457.5</td></tr></tbody></table></div> <div><p>Annual Vehicle Miles Traveled (AVMT) Per Capita</p><table><caption>Annual Vehicle Miles Traveled (AVMT) Per Capita</caption><thead><tr><th>Year</th><th>AVMT on Local Roads and Highway 101 per Capita</th><th>AVMT Local Roads per Capita</th></tr></thead><tbody><tr><td>2005</td><td>10,436</td><td>2,826</td></tr><tr><td>2006</td><td>9,800</td><td>2,826</td></tr><tr><td>2007</td><td>8,226</td><td>2,826</td></tr></tbody></table></div> <p>In 2007, vehicle miles traveled (VMT) within Morgan Hill was 455.5 million miles including the portion of Highway 101 that runs through Morgan Hill. That is 10,436 miles per capita. Excluding Highway 101, VMT for 2007 is 123.4 million miles. That is 2,826 miles per capita.</p>	Year	AVMT Local Road	AVMT for HWY 101	Total AVMT	2005	123.4	334.1	457.5	2006	123.4	322.1	445.5	2007	123.4	334.1	457.5	Year	AVMT on Local Roads and Highway 101 per Capita	AVMT Local Roads per Capita	2005	10,436	2,826	2006	9,800	2,826	2007	8,226	2,826	<p><b>Air Quality Climate Protection Transportation</b></p> <p>Source: Data was obtained from the Metropolitan Transportation Commission (MTC) and ICLEI.</p> <p>VMT is measured using the Highway Performance Monitoring System (HPMS).</p> <p>Per capita is based on the average number of jobs per year and 69.5% of the total population that was of driving age per year. Driving age percentage was obtained from Census 2000 data that provided the percentage of the population over 18 years of age in Morgan Hill.</p>
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<p>Total miles of bicycle lanes/paths/routes.</p> <p><i>Goal: Upward Trend</i></p> <p><b>Current Status:</b> No Changes in 2008. Additions are expected to be made in 2009.</p>	<p>19.1 miles</p>	<p><b>Air Quality Climate Protection Community Health Transportation</b></p> <p>Source: Data was obtained from the Public Works Department.</p>
<p>Annual number of residents/workers participating in Bike-To-Work days.</p> <p><i>Goal: Upward Trend</i></p> <p><b>Current Status:</b> Significant Increase (150%)</p>	<p>2007: One Bike To Work Station and 32 participants 2008: One Bike To Work Station and 80 participants</p> <p><u>Participation in Bike to Work Month Competition</u> City of Morgan Hill employees: Police Department, Recreation, Public Works, Environmental Programs</p>	<p><b>Transportation</b></p> <p>Source: Data was obtained from Morgan Hill's Bicycle Technical Advisory Committee (BTAC).</p>
<p>Annual number of businesses within the City actively participating in 511.org alternative transportation solutions.</p> <p><i>Goal: Upward Trend</i></p> <p><b>Current Status:</b> Decreased by ½</p>	<p>2007: 4 businesses 2008: 2 business</p>	<p><b>Transportation</b></p> <p>Source: Data was obtained from 511.org (Rideshares).</p>

Indicator	2008 Data * unless specified	Environmental Agenda Goal(s) Addressed and Data Sources
<p>Annual number of residents that sign up for alternative transportation support from 511.org.</p> <p><i>Goal: Upward Trend</i></p> <p><b>Current Status:</b> No Change in Rideshare Sign ups and Decreased Participation in Rideshare Rewards Program</p>	<p>2007</p> <p>511 Rideshare sign ups: 57</p> <p>35 Residents and 22 non-residents that commute to Morgan Hill</p> <p>Rideshare Reward Participants: 11 (4 in 2006)</p> <p>6 residents and 5 non-residents that commute to Morgan Hill</p> <p>2008</p> <p>511 Rideshare signups:</p> <p>35 residents and 21 non residents that commute to Morgan Hill</p> <p>Rideshare Reward Participants:</p> <p>2 residents and 2 non residents that commute to Morgan Hill</p>	<p><b>Transportation</b></p> <p>Source: Data was obtained from 511.org (Rideshares).</p>
<p>Tree canopy coverage (updated periodically).</p> <p><i>Goal: Upward Trend</i></p>	<p>City owned tree canopy makes up 1% of the total land area with an estimated 10.5 million pounds of carbon stored in the trees. Annual carbon sequestration rate is 790, 423 pounds per year.</p>	<p><b>Climate Protection</b></p> <p>Source: Using aerial photographs from 2006 to determine percent of tree canopy coverage.</p>
<p>Annual number of homes and businesses with renewable energy installations.</p> <p><i>Goal: Upward Trend</i></p> <p><b>Current Status:</b> Major installations increased 37%. Smaller installations have increased 8%.</p>	<p>28 major installations</p> <p>1 installation for a solar water heating system</p> <p>1 installation for a solar pool heater</p> <p>Total number of installations since 1999, including 2008 data:</p> <p>102 roof installations</p> <p>27 smaller installations</p>	<p><b>Climate Protection Energy Green Building</b></p> <p>Source: Data was obtained from the Community Development Department.</p>



Indicator	2008 Data * unless specified	Environmental Agenda Goal(s) Addressed and Data Sources
<p>Percentage of population commuting to work alone. (Decennial)</p> <p><i>Goal: Downward Trend</i></p> <p><b>Current Status:</b> No change will be reported until 2011.</p>	<p>2000 Census: 75.5%</p>	<p><b>Climate Protection Transportation</b></p> <p>Source: U.S. Census Bureau, Census 2000. Next Census update will be in 2010.</p>
<p>Percentage of population carpooling, using public transit, walking, biking, or other means for commuting to work. (Decennial)</p> <p><i>Goal: Upward Trend</i></p> <p><b>Current Status:</b> No change will be reported until 2011.</p>	<p>2000 Census</p> <p>14.6% of the Morgan Hill population carpools 4.4% of the Morgan Hill population uses public transit 2.3% walks, bicycles or uses some other mode 3.2% telecommutes</p>	<p><b>Climate Protection Transportation</b></p> <p>Source: U.S. Census Bureau, Census 2000. Next Census update will be 2010.</p>

Indicator	2008 Data * unless specified	Environmental Agenda Goal(s) Addressed and Data Sources
<p>Mean travel time to work (minutes). (Decennial)</p> <p><i>Goal: Downward Trend</i></p> <p><b>Current Status:</b> 13% decrease in travel time to work</p>	<p>2000 Census :33.9 minutes 2005-2007 American Community Survey: 29.2 minutes</p>	<p><b>Climate Protection Transportation</b></p> <p>Source: U.S. Census Bureau, Census 2000. Next Census update will be 2010.</p>
<p>Percentage of population or number of persons documented as having high blood pressure, diabetes, high cholesterol, asthmatic problems, or are considered obese (updated periodically).</p> <p><i>Goal: Downward Trend</i></p> <p><b>Current Status:</b> Asthma emergencies decreased by 18%. Asthma hospitalizations decreased by 22%.</p>	<p>Some data collection is still in progress</p> <p>128 asthma emergency department visits per 10,000 residents in 2007</p> <p>28 asthma hospitalizations visits per 10,000 residents in 2007</p>	<p><b>Community Health</b></p> <p>Source: Health Trust, BAAQMD</p> <p>Asthma information obtained from California Breathing, California Office of Statewide Health Planning and Development (OSHPD) and emergency department databases.</p>



Indicator	2008 Data * unless specified	Environmental Agenda Goal(s) Addressed and Data Sources
<p>Annual number of memberships/users of the Centennial Recreation Center and Aquatic Center.</p> <p><i>Goal: Upward Trend</i></p> <p><b>Current Status:</b> See data on right.</p>	<p><b>Centennial Recreation Center:</b>  Average monthly membership: 2,954 <i>Increased by 47%</i>  Average monthly users: 11,408 <i>Increased by 2%</i>  Average Fitlinxx users: 2,350 <i>Decreased 16%</i>  Total senior lunches served: 18,673 <i>Increased by 56%</i>  Total teen visits to Teen Center: 8,900 <i>Increased by 71%</i></p> <p><b>Aquatic Center:</b>  Total summer pass holders: 219 <i>Decreased by 18%. The decrease is associated with summer passes now being included with current membership to the Centennial Recreation Center.</i>  Total summer usage (visits): 68,000 <i>Increased by 51%</i></p>	<p><b>Community Health</b></p> <p>Source: Data was obtained from Parks and Recreation Department.</p>
<p>Annual number of community health programs/events/ courses that are sponsored/initiated by the City or County, including the number of participants.</p> <p><i>Goal: Upward Trend</i></p> <p><b>Current Status:</b> See data on right.</p>	<p><b>County Healthy Trails Participation: 90 in 2008 (10 in 2007)</b>  <i>Healthy trails participation increased 800%.</i></p> <p><b>Total participation in community courses: 8,512 (9,074)</b>  <i>Decreased by 6%. The decreased numbers is associated with the decrease in the number of community classes offered.</i></p> <p><b>Total number of community classes: 1500 (1,600) Decreased by 6%</b></p> <p><b>Total number of health related events: 4 No change</b></p>	<p><b>Community Health</b></p> <p>Source: Data for Healthy Trails was obtained from Santa Clara County Parks Department.</p> <p>Other data was obtained from Morgan Hill Parks and Recreation Department.</p>

Indicator	2008 Data * unless specified	Environmental Agenda Goal(s) Addressed and Data Sources
<p>Annual number of county park passes purchased by Morgan Hill residents.</p> <p><i>Goal: Upward Trend</i></p> <p><b>Current Status:</b> Park passes purchased by Morgan Hill residents increased 59% in 2008.</p>	<p>319 passes in 2008 200 passes in 2007</p>	<p><b>Community Health</b></p> <p>Source: Data was obtained from Santa Clara County Parks Department.</p>
<p>Annual number of vendors offering organic products at the local Farmer's Market.</p> <p><i>Goal: Upward Trend</i></p> <p><b>Current Status:</b> Update for 2008 is in progress.</p>	<p>15-20% of the Farmer's Market vendors offer organic food.</p>	<p><b>Community Health</b></p> <p>Source: Data was obtained from the California Farmers' Markets Association.</p>
<p>Annual number of YMCA programs and memberships.</p> <p><i>Goal: Upward Trend</i></p> <p><b>Current Status:</b> 70% increase in participation.</p>	<p>1500 participants in 10 non-city related programs.</p>	<p><b>Community Health</b></p> <p>Source: Data was obtained from the Mt. Madonna YMCA. Programs include: Y-Guide, Sports, childcare, and after school program.</p>



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<p>Annual electricity and natural gas consumption in Morgan Hill (also report residential per capita and commercial per employment).</p> <p><i>Goal: Downward Trend</i></p> <p><b>Current Status:</b> Electricity use has increased from the 2005 baseline year. This is due to residential and commercial growth in 2006 and 2007.</p> <p>Per capita, energy use appears to be declining.</p> <p>Increasing energy efficiency in new and existing buildings will play a vital role in reducing electricity usage.</p>	<div><p><b>Yearly Energy Consumption for Commercial and Residential Sectors</b></p><table><thead><tr><th>Year</th><th>Consumption (Millions kWh)</th></tr></thead><tbody><tr><td>2005</td><td>441</td></tr><tr><td>2006</td><td>466</td></tr><tr><td>2007</td><td>469</td></tr></tbody></table></div> <div><p><b>Yearly Energy Consumption for Commercial and Residential per Capita</b></p><table><thead><tr><th>Year</th><th>Consumption (kWh)</th></tr></thead><tbody><tr><td>2005</td><td>8450</td></tr><tr><td>2006</td><td>8800</td></tr><tr><td>2007</td><td>8580</td></tr></tbody></table></div>	Year	Consumption (Millions kWh)	2005	441	2006	466	2007	469	Year	Consumption (kWh)	2005	8450	2006	8800	2007	8580	<p><b>Energy</b></p> <p>Source: Data was obtained from PG&amp;E.</p> <p>Per capita analysis is based on population and employment.</p>
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<p>Annual number/percentage of projects that include green building practices beyond Title 24 Building Code requirements.</p> <p><i>Goal: Upward Trend</i></p> <p><b>Current Status:</b> Increased. See data for more details.</p>	<p><b><u>Residential Growth Control Analysis:</u></b> All projects that were submitted for the 2008 RDCS competition committed to achieving 121-131 points on Build It Green's checklist. The minimum points required for green home certification is 50 points.</p> <p><b><u>Voluntary green building policy analysis.</u></b> Beginning in December 2007, the Building Division required sustainable building checklist to be filled out for significant projects. The purpose was to familiarize the community with sustainable building practices and materials and to survey current trends. Applicants were not required to follow through with the measures on the checklist, nor were measures verified by city staff or a third party. The results are below.</p> <p><b>Residential Projects:</b> Out of 61 building permits issued for new residential dwelling units. 56% were built to exceed current energy code requirements and would have met the minimum GreenPoint rated standards to be considered a sustainable home. The Madrone Plaza development was a significant contributor to the number of green homes in the community. Each home is achieving between 100-129 points, which is well above the 50 point minimum to be considered a sustainable home by Build It Green. Residential additions were also able to exceed energy code requirements.</p> <p><b>Commercial Projects:</b> Out of the 5 building permits issued for significant renovations and new buildings, 40% were built to exceed current energy code requirements and would have been considered LEED certified.</p>	<p><b>Green Building</b></p> <p>Source: Data was obtained from the Building Department.</p> <p>1,161 total permits were finalized in 2007.</p>



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<p>Number of buildings that have LEED standards or are GreenPoint rated. Also, include the number of structures that have status either as a LEED certified, Gold, Silver, or Platinum building or other level of green performance.</p> <p><i>Goal: Upward Trend</i></p> <p><b>Current Status:</b> Significant Increase</p>	<p><b>2008 Data</b></p> <ul style="list-style-type: none"> <li>• 18 Madrone Plaza homes have achieved 101 points on Build It Green's Checklist (minimum points required to be considered a green home is 50.) The project will continue to certify each home for a total of 134 units.</li> <li>• Development Services Center (meeting LEED Silver standards)</li> <li>• Mangia Pizza's tenant improvement at the Granary (meeting LEED Gold standards)</li> </ul> <p><b>2007 Data</b></p> <p>2005-Aquatics Center achieved Silver (City) 2006-The Granary achieved Gold (Private)</p>	<p><b>Green Building</b></p> <p>Source: Data was obtained from city staff and from local developers.</p>
<p>Additional indicators to be determined upon adoption of Habitat Conservation Plan in partnership with Santa Clara County.</p>	<p>In progress</p>	<p><b>Habitat Conservation</b></p>
<p>Total area of open space owned by the City, governmental agencies, and/or non-profits in Morgan Hill's sphere of influence.</p> <p><i>Goal: Upward Trend</i></p> <p><b>Current Status:</b> No change</p>	<p>985.5 acres (owned by the City) 187.5 acres (open space easements)</p>	<p><b>Open Space</b></p> <p>Source: Data was obtained from the Planning Department.</p> <p>Open space easements are a result of development credits transferred from private land owners to developers.</p>

Indicator	2008 Data * unless specified	Environmental Agenda Goal(s) Addressed and Data Sources
<p>Annual number or percentage of new commercial and residential development located in the City's environmental core. Environmental core is defined from Cochrane Road to Tennant Ave. (North to South) and from HWY 101 to Dewitt (East to West).</p> <p><i>Goal: Upward Trend</i></p> <p><b>Current Status:</b> Six percent decrease in new residential constructed in the core than in 2007. There was only one newly constructed commercial building permit (Wachovia) pulled in 2008 and it was located outside the environmental core. However, many tenant improvements were made within the environmental core.</p>	<p>Percentage of newly constructed developments occurring within the environmental core:</p> <p>92% of new residential</p> <p>0% of new commercial</p>	<p><b>Open Space</b></p> <p>Source: Data was obtained from the Building Department.</p>

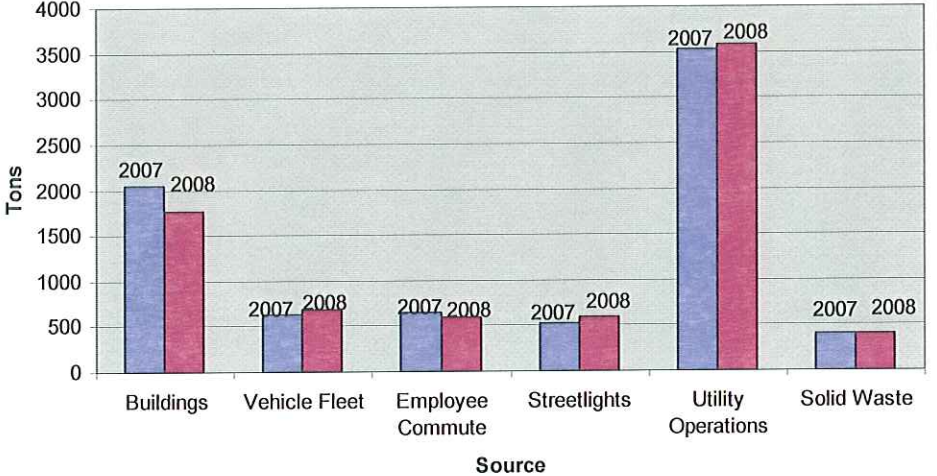


Indicator	<b>2008 Data</b> * unless specified	<b>Environmental Agenda Goal(s) Addressed and Data Sources</b>
<p>Annual estimated number of vendors and visitors at the Farmer's Market.</p> <p><i>Goal: Upward Trend</i></p> <p><b>Current Status:</b> Update for 2008 is in progress.</p>	<p>Estimated vendors: 15 to 25 per week Estimated visitors for 2007 season: 27,400</p>	<p><b>Local Resources and Products</b></p> <p>Source: Data was obtained from the California Farmers' Markets Association.</p> <p>The Farmer's Market operated 33 weeks in 2007.</p>
<p>Annual estimated sales at the local Farmer's Market.</p> <p><i>Goal: Upward Trend</i></p> <p><b>Current Status:</b> Update for 2008 is in progress.</p>	<p>Average estimated sales at Farmer's Market = \$342,500</p>	<p><b>Local Resources and Products</b></p> <p>Source: Data was obtained from California Farmers' Markets Association.</p> <p>The Farmer's Market operated 33 weeks in 2007.</p>

Indicator	<b>2008 Data</b> * unless specified	<b>Environmental Agenda Goal(s) Addressed and Data Sources</b>
Annual number of residents/restaurants participating in community supported agriculture.  <i>Goal: Upward Trend</i>  <b>Current Status:</b> 47% increase in participation	65 residents participating 12 in local meat market	<b>Community Health Local Resources and Products</b>  Source: Data was obtained from local farms that provide drop-off locations in Morgan Hill.
Annual number of programs sponsored or initiated by the City to encourage local consumption of food and other products (also report on public participation).  <i>Goal: Upward Trend</i>  <b>Current Status:</b> Significant Increase	Green Forum on Buying Local : 10 Participants Go Local billing insert sent to 12,400 households Promoted in Carbon Diet Clubs	<b>Local Resources and Products</b>  Source: Environmental Programs Department

Indicator	2008 Data * unless specified	Environmental Agenda Goal(s) Addressed and Data Sources
<p>Annual city employee commute method, travel distance, and carbon emissions related to traveling to and from work.</p> <p><i>Goal: Downward trend in driving alone and VMT.</i></p> <p><b>Current Status:</b> The percentage of employees driving alone has increased. However, there has been a decrease in travel miles to work, meaning that employees are moving closer to the workplace.</p> <p>There was an 8% decrease in the amount of greenhouse gas emitted. Employees were able to use Eco Passes from August to December 2008, allowing them to ride VTA transit for free.</p>	<p>43% of city employees travel 0-5 miles to get to and from work with 93% driving alone 13% of city employees travel 6-10 miles with 97% driving alone 18% of city employees travel 11-20 miles with 83% driving alone 27% of city employees travel 21 or more miles with 83% driving alone</p> <p>591 tons of greenhouse gas was emitted from employee commute in 2008 (3.2 tons per employee)</p> <p>Total vehicle miles traveled : 1.3 million miles</p>	<p><b>Municipal Government</b></p> <p>Source: Data was obtained from a survey distributed in November 2007. Results were analyzed by 511.org (Rideshares).</p>



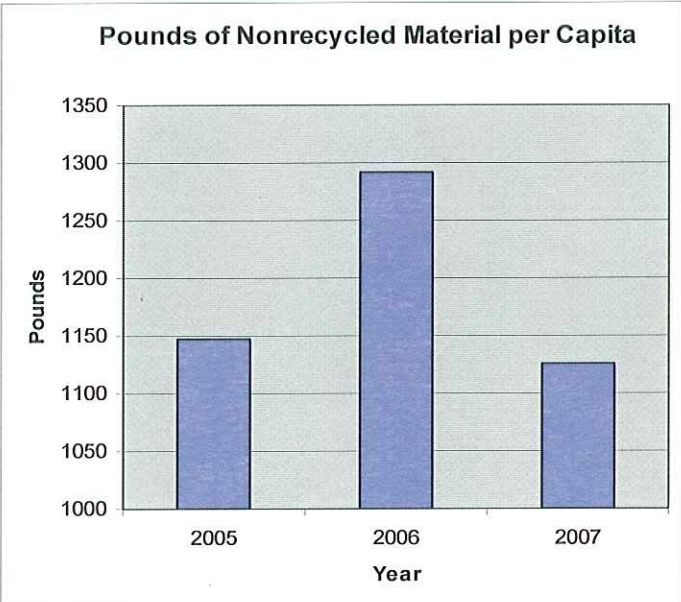
Indicator	<b>2008 Data</b> * unless specified	<b>Environmental Agenda Goal(s) Addressed and Data Sources</b>																					
<p>Annual carbon emissions from city operations.</p> <p><i>Goal: Downward Trend</i></p> <p><b>Current Status:</b>  <i>There was a 2% decrease in carbon emissions. However, even with the reductions in energy use, the costs for consuming energy increased by \$96,000.</i></p> <p><i>Continuing to conserve energy, invest in energy efficient upgrades/equipment and install renewable energy systems will save the city in the long run.</i></p>	<p style="text-align: center;"><b>Greenhouse Gas Emissions For Government Operations</b></p>  <table border="1"> <caption>Greenhouse Gas Emissions Data (Tons)</caption> <thead> <tr> <th>Source</th> <th>2007</th> <th>2008</th> </tr> </thead> <tbody> <tr> <td>Buildings</td> <td>~2100</td> <td>~1800</td> </tr> <tr> <td>Vehicle Fleet</td> <td>~700</td> <td>~650</td> </tr> <tr> <td>Employee Commute</td> <td>~700</td> <td>~750</td> </tr> <tr> <td>Streetlights</td> <td>~600</td> <td>~650</td> </tr> <tr> <td>Utility Operations</td> <td>~3600</td> <td>~3800</td> </tr> <tr> <td>Solid Waste</td> <td>~450</td> <td>~500</td> </tr> </tbody> </table>	Source	2007	2008	Buildings	~2100	~1800	Vehicle Fleet	~700	~650	Employee Commute	~700	~750	Streetlights	~600	~650	Utility Operations	~3600	~3800	Solid Waste	~450	~500	<p style="text-align: center;"><b>Municipal Government</b></p> <p>Source: Data was obtained from City records and analyzed using Climate Protection Software provided by ICLEI.</p>
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<p>Average miles per gallon of fleet vehicles.</p> <p><i>Goal: Upward Trend</i></p> <p><b>Current Status:</b> No change</p>	<p style="text-align: center;">15 mpg for local driving 20 mpg for Highway driving</p>	<p style="text-align: center;"><b>Municipal Government</b></p> <p>Source: Data was obtained from fleet inventory and EPA standards for miles per gallon in relation to specific car makes and models.</p>																					

Indicator	2008 Data * unless specified	Environmental Agenda Goal(s) Addressed and Data Sources
<p>Annual number of alternatively powered vehicles that increase energy efficiency.</p> <p><i>Goal: Upward Trend</i></p> <p><b>Current Status:</b> No change</p>	<p>1 GEM electric vehicle</p>	<p><b>Municipal Government</b></p> <p>Source: Data was obtained through a survey of all city departments.</p>
<p>Annual city government water usage.</p> <p><i>Goal: Downward Trend</i></p> <p><b>Current Status:</b> 2% increase in water use</p>	<p>62.3 million gallons</p>	<p><b>Municipal Government</b></p> <p>Source: Data was obtained from the City's Finance Department.</p>
<p>Annual number of trees planted by the City.</p> <p><i>Goal: Upward Trend</i></p> <p><b>Current Status:</b> 87% decrease in the number of trees planted in 2008 than in 2007.</p>	<p>52 trees planted in 2008 431 trees were planted in 2007</p>	<p><b>Municipal Government</b></p> <p>Source: Data was obtained from the Street Maintenance Division of the Public Works Department.</p>

Indicator	2008 Data * unless specified	Environmental Agenda Goal(s) Addressed and Data Sources
<p>Annual amount of hazardous waste generated by city operations, and collected along city roadways.</p> <p><i>Goal: Downward Trend</i></p> <p><b>Current Status:</b> Decreased 63%</p>	<p>2541 pounds of hazardous waste was disposed of in 2008</p>	<p><b>Municipal Government</b></p> <p>Source: Data was obtained from the Public Works Department and includes: motor oil, batteries, aerosol cans, transit asbestos, concrete pipe, and other solid waste.</p>
<p>Annual number of projects/programs that improve the environmental performance of the city and are specific to the goals of the environmental agenda. If applicable, the number of participants will be included.</p> <p><i>Goal: Upward Trend</i></p> <p><b>Current Status:</b> Upward Trend</p>	<p>Low Carbon Diet Campaign: 2 pilot groups Green Building Display in Development Services Center</p> <p>Eco Pass program for city employees</p> <p>Bicycle fleet policy</p> <p>Stormwater pledges</p> <p>Participation in Bike Month: Police Department, Public Works, Redevelopment, City Manager and Environmental Programs staff.</p>	<p><b>Municipal Government</b></p> <p>Source: Data was obtained from the Association of Bay Area Governments and the Environmental Programs Division.</p>



Indicator	2008 Data * unless specified	Environmental Agenda Goal(s) Addressed and Data Sources
<p>Annual amount of household hazardous waste diverted from landfill or other areas and number of participants in Household Hazardous Waste (HHW) events.</p> <p><i>Goal: Upward Trend</i></p> <p><b>Current Status:</b> Total pounds of hazardous waste disposed Increased by 400%.</p> <p>6% decrease in the number of participants than in 2007. It is possible that residents are having hazardous waste picked up by South Valley Disposal and Recycling.</p>	<p>25,956.25 pounds 889 participants</p>	<p><b>Pollution Prevention</b></p> <p>Source: Data was obtained from Santa Clara County Household Hazardous Waste Department (HHW).</p>
<p>Annual quantity of commercial hazardous waste that is treated/disposed of off-site.</p> <p><b>Current Status:</b> Update for 2008 is in progress</p>	<p><b>In 2007, 1,030 tons of commercial hazardous waste was disposed of offsite.</b></p>	<p><b>Pollution Prevention</b></p> <p>Source: Data was obtained from manifests submitted to the State Department of Toxic Substances Control.</p>

Indicator	2008 Data * unless specified	Environmental Agenda Goal(s) Addressed and Data Sources								
Annual number of certified green businesses.  <i>Goal: Upward Trend</i>  <b>Current Status:</b> Increased 44%	13	<b>Pollution Prevention</b>  Source: Data was obtained from Santa Clara County's Green Business Program.								
Citywide tonnage of waste landfilled per year.  <i>Goal: Downward Trend</i>  <b>Current Status:</b> Per capita solid waste has decreased by 12% from 2006 to 2007.	<div><p><b>Pounds of Nonrecycled Material per Capita</b></p><table><caption>Pounds of Nonrecycled Material per Capita</caption><thead><tr><th>Year</th><th>Pounds</th></tr></thead><tbody><tr><td>2005</td><td>1145</td></tr><tr><td>2006</td><td>1290</td></tr><tr><td>2007</td><td>1125</td></tr></tbody></table></div>	Year	Pounds	2005	1145	2006	1290	2007	1125	<b>Solid Waste and Recycling</b>  Source: Data was obtained from California Integrated Waste Management.
Year	Pounds									
2005	1145									
2006	1290									
2007	1125									
Citywide tonnage of recycled materials diverted from the landfill per year.  <i>Goal: Upward Trend</i> <b>Current Status:</b> 3% decrease	10,661 tons	<b>Solid Waste and Recycling</b>  Source: Data was obtained from South Valley Disposal and Recycling.								

Indicator	<b>2008 Data</b> * unless specified	<b>Environmental Agenda Goal(s) Addressed and Data Sources</b>																					
Annual waste diversion rate. <i>Goal: Upward Trend</i>	62% in 2006  <b>Current Status:</b> <b>1% increase</b>	<b>Solid Waste and Recycling</b>  Source: Data was obtained from California Integrated Waste Management.																					
Annual citywide water consumption (also report by commercial and residential sector).  <i>Goal: Downward Trend</i>  <b>Current Status:</b> A total of 2.6 billion gallons of water was used in 2008, which was the same amount reported in 2007.  However, there was a 16% decrease in gallons of water used per capita in the commercial sector (excludes landscaping.)  Residential usage per capita has not changed even with population growth.  <b>Landscaping usage is increasing.</b>	<div data-bbox="472 386 1421 852"> <p><b>Total Citywide Water Usage for 2007 and 2008</b></p> <table border="1"> <caption>Total Citywide Water Usage (Millions of Gallons)</caption> <thead> <tr> <th>Category</th> <th>2007</th> <th>2008</th> </tr> </thead> <tbody> <tr> <td>Residential</td> <td>~1800</td> <td>~1800</td> </tr> <tr> <td>Commercial</td> <td>~250</td> <td>~200</td> </tr> <tr> <td>Separately Metered Landscaped Areas</td> <td>~550</td> <td>~600</td> </tr> </tbody> </table> </div> <div data-bbox="472 865 1421 1409"> <p><b>Water Usage Per Capita (Excluding Landscaped Meters) for 2007 and 2008</b></p> <table border="1"> <caption>Water Usage Per Capita (Thousands of Gallons)</caption> <thead> <tr> <th>Category</th> <th>2007</th> <th>2008</th> </tr> </thead> <tbody> <tr> <td>Residential</td> <td>~46</td> <td>~46</td> </tr> <tr> <td>Commercial</td> <td>~18</td> <td>~15</td> </tr> </tbody> </table> </div>	Category	2007	2008	Residential	~1800	~1800	Commercial	~250	~200	Separately Metered Landscaped Areas	~550	~600	Category	2007	2008	Residential	~46	~46	Commercial	~18	~15	<div data-bbox="1602 824 1822 857"> <b>Water Supply</b> </div> <div data-bbox="1444 889 1921 950">           Source: Data provided by City's Finance Department (utility billing).         </div>
Category	2007	2008																					
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Indicator	2008 Data * unless specified	Environmental Agenda Goal(s) Addressed and Data Sources
<p>Annual feet of recycled water pipe in the city.</p> <p><i>Goal: Upward Trend</i></p> <p><b>Current Status:</b> No Change</p>	<p>NONE</p>	<p><b>Water Supply</b></p> <p>Source: Data to be provided by the Public Works Department.</p>